1. In this question you must show all stages of your working.

Solutions relying entirely on calculator technology are not acceptable.

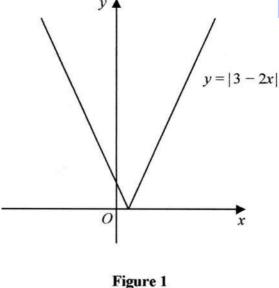


Figure 1 shows a sketch of the graph with equation y = |3 - 2x|Solve

$$\left|3-2x\right|=7+x$$

$$3-2x = 7+x$$

$$3-2x=7+$$

$$\Rightarrow x = -\frac{4}{3}$$

check u positive
$$y = 7 + (-\frac{3}{3}) = 5\frac{3}{3}$$

$$\Rightarrow x = 10$$

2x - 3 = 7 + x

(10,17)

(4)